

Sodium ion monitor

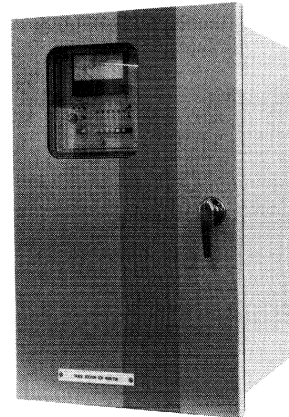
Model: **EMNA-10**

BS13-001

This instrument continuously measures ppb level Sodium ion concentration in boiler water. The presence of sodium ions can become locally concentrated causing alkali corrosion. It is therefore essential that Sodium concentration is maintained at a very low level.

Features

- Continuous measurement of low concentration sodium ions.
- Sodium ion electrode gives excellent performance in the low concentration region.
- Easy one point calibration as the basic calibration.
- Compact size, requiring only a small floor area.
- Wide measurement span with three switchable ranges.

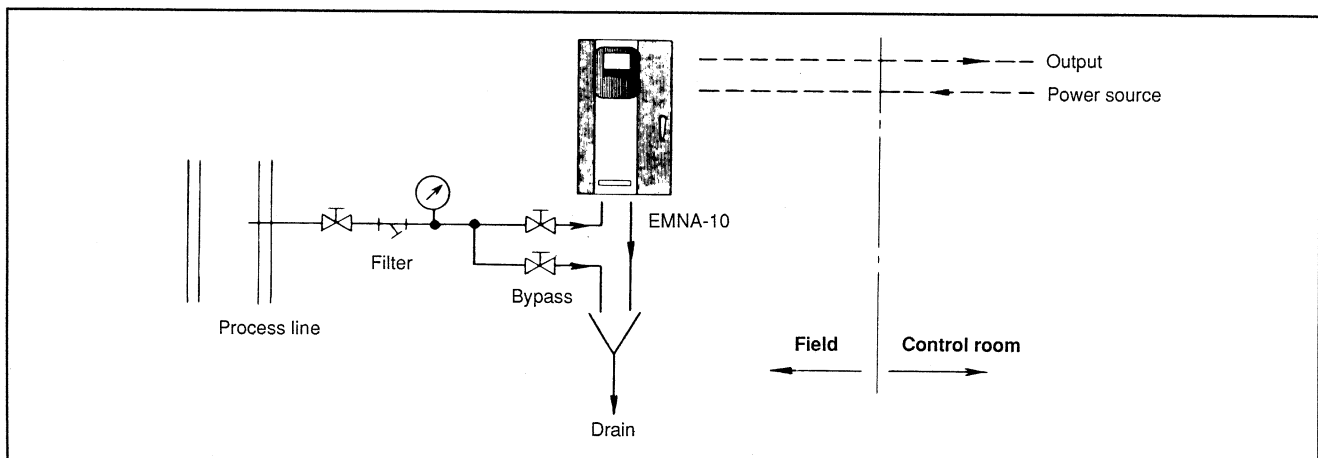


Standard Specifications

Product Name	: Sodium ion monitor
Model	: EMNA-10
Measurement Range	: 0.1 ~ 10/1 ~ 100/10 ~ 1000ppb (Manually switched)
Scale	: Logarithmic graduation
Ambient Temperature	: 2 ~ 45°C
Alarm Output	: Sample cutoff signal Reagent cutoff signal Measured value abnormality signal
Output Signal	: 4 ~ 20mA DC, linear output
Sample Conditions	: Flow rate 0.2 ~ 1 l/min Pressure 0.2 ~ 2kgf/cm ² G Temperature 0 ~ 50°C

Power Requirements	: 100V AC ±10% 50/60Hz
Power Consumption	: 50VA
Wetted Materials	: PVC, PMMA (methacryl resin), PP, PTFE, SUS304, SUS316
Dimensions	: 410(W) x 500(D) x 670(H)mm
Weight	: Approx. 45kg

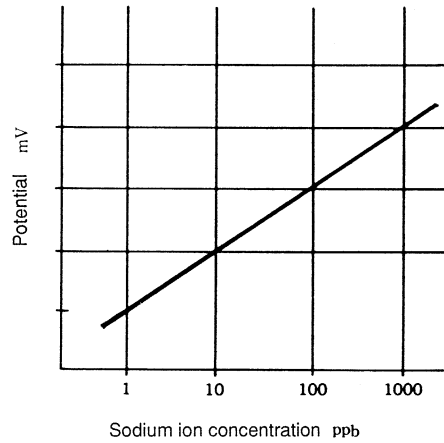
System Configuration



Principle of Operation

When the sodium electrode is immersed in the sample together with the reference electrode, an electrochemical potential corresponding to the sodium ion concentration is developed. Since this potential varies with temperature, the variation is corrected with a temperature compensation electrode.

The hydrogen ion concentration in the sample affects the measurement. To avoid this, a small amount of monoethanol amine is added to the sample, and measurement is made under high alkali conditions.



Dimensions

Unit: mm

